From: Schindler, Jason

To: <u>Haklar, James</u>; <u>Mark Fisher</u>

Cc: Ramin Ansari (Ramin.Ansari@chemtura.com); Martin, Ana (Ana.Martin@chemtura.com); Blarr, Steve; Jones,

Sally; Peachey, Bryan; Parekh, Bhuvnesh; Devorak, Coleen

Subject:Hatco Former Lagoon Area Cap DesignDate:Monday, May 22, 2017 3:56:23 PMAttachments:Hatco-LFCap-RevC Signed.pdf

2017-05-22 QAPP Add X119 Supp Exc.pdf

#### Jim, Mark,

Attached please find the cap design drawings for the Former Lagoon Area. Please let me know if you need hard copies and, if so, how many sets.

In concert with the capping effort we plan to excavate the remaining PCB-contaminated soils from Scrape Area X119 and reuse this soil beneath the cap in the Former Lagoon Area. I have attached the supplemental excavation plan that describes the work planned to complete Scrape Area X119. Pending your review and approval we will proceed with construction activities. Please let me know if you have any questions or require additional information.

Thanks,

Jason

Jason Schindler

Principal Project Manager

Weston Solutions, Inc.

205 Campus Drive

Edison, NJ 08837

Tel: 732-417-5804 Cell: 732-740-5529 Fax: 732-417-5801

### www.westonsolutions.com

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# Memorandum

**To:** James S. Haklar, Ph.D., USEPA Region 2

Mark D. Fisher, LSRP, The ELM Group

From: Jason Schindler, Weston Solutions, Inc.

**Date:** May 22, 2017

**Re:** Quality Assurance Project Plan Addendum

Scrape Area X119 Supplemental Excavation Plan

Hatco Remediation Project

Fords, New Jersey

This memorandum and attachments serve as an addendum to the Quality Assurance Project Plan (QAPP) for the Hatco remediation project, most recently revised August 22, 2014. This addendum is intended to support supplemental excavation of the area designated "Scrape Area X119" at the Hatco site.

Scrape Area X119 was excavated as part of the Southeast Leg remediation project in 2014 and 2015. Surface soil samples collected in June 2015 from the perimeter of the primary excavation at Scrape Area X119 exhibited total polychlorinated biphenyl (PCB) concentrations above the remediation criterion of 2 milligrams per kilogram (mg/kg). In October 2015, shallow, one-foot deep excavations were completed along the edges of the Scrape Area to address these exceedances. The shallow excavations successfully removed the majority of the remaining surficial contamination along the edges. Post excavation samples were collected along the perimeter of the Scrape Area and were analyzed for PCBs. Samples from the southern perimeter were also analyzed for bis(2-ethylhexyl)phthalate (BEHP), to document removal of an isolated exceedance in that area. However, post-excavation samples from six perimeter locations exceeded the PCB criterion. Post-excavation samples from the southern-most location (X119-C8) also exceeded the BEHP soil criterion of 210 mg/kg. Additional soil samples were collected in March 2016 to determine the extent of surficial contamination. Based on the resulting data six discrete areas require further excavation. The sample locations and the horizontal and vertical extent of the six areas to be removed are depicted on Figure 1. Table 1 identifies the previous post-excavation samples that exceed the criteria, and the approximate dimensions and volume of the areas to be removed.

The area is located in a wetland which cannot be accessed using heavy equipment. Soils will therefore be excavated using hand-held equipment. The excavations will be backfilled with clean fill and seeded.

Large trees border several of the planned excavation areas. The trees will not be removed. Where major tree root systems extend into the planned areas, soil will be excavated by hand from around the roots to the extent practicable and replaced with clean soil.



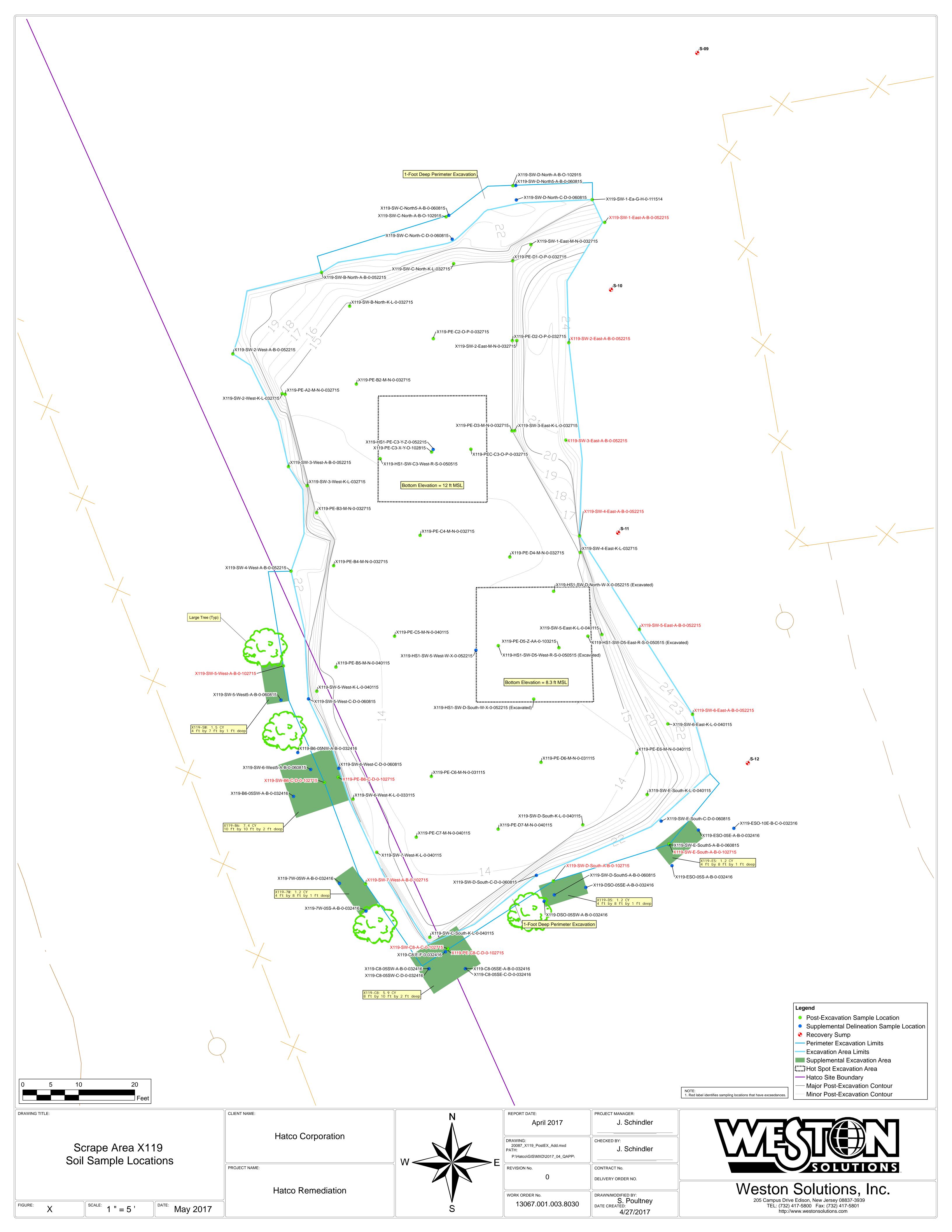
Dr. James Haklar
May 22, 2017
Mark Fisher, LSRP
Page 2

Post-excavation soil samples are summarized on Table 2. Dedicated, disposable sampling trowels will be used to collect samples and to place the sample material directly into laboratory-prepared sample containers.

Sample collection and analysis will be performed in accordance with the protocols described in the QAPP revised August 22, 2014. Sample quantities, frequencies, analytical parameters and field quality control samples are summarized on Table 3.

#### **ATTACHMENTS:**

- Figure 1. Scrape Area X119 Supplemental Excavations
- Table 1. Supplemental Excavation Plan
- Table 2. Post-Excavation Sampling Summary
- Table 3. Quality Control Sampling Summary



# Table 1. Supplemental Excavation Plan Scrape Area X119 Hatco Remediation Project Fords, New Jersey

			Conce	ntration	Contar	ninanat				
	Post-Excavation Sample	Sample Interval	Remaining (mg/kg)		Criterion (mg/kg)		Dimensions (feet)		Volume	
Area	Area Exceedances to be Removed (feet below g		PCB	BEHP	PCB	BEHP	N-S	E-W	Depth	(cubic yards)
X119-ES	X119-SW-E-South-A-B-0-102715	0.0-0.5	50		2	210	4	8	1	1.2
X119-DS X119-SW-D-South-A-B-0-102715		0.0-0.5	5.7		2	210	4	8	1	1.2
X119-C8	X119-SW-C8-A-C-0-102715	0.0-0.5	48	330	2	210	Q	10	2	5.9
X119-C6	X119-PE-C8-C-D-0-102715	1.0-1.5	84	1,100	2	210	8	10		
X119-7W	X119-SW-7-West-A-B-0-102715	0.0-0.5	5.4		2	210	8	4	1	1.2
X119-B6	X119-SW-B6-C-D-0-102715	1.0-1.5	19		2	210	10	10	2	7.4
	X119-PE-B6-C-D-0-102715	1.0-1.5	31		2	210	10			
X119-5W	9-5W X119-SW-5-West-A-B-0-102715 0.0-0.5		5.5		2	210	4	10	1	1.5

#### Notes:

mg/kg: Concentration in milligrams per kilogram dry weight basis

--: Post-excavation sample not analyzed for BEHP

PCB Total polychlorinated biphenyls BEHP Bis(2-ethylhexyl)phthalate

N-S Excavation dimension trending north/south parallel to the Scrape Area X119 sidewall at this location E-W Excavation dimension trending east/west parallel to the Scrape Area X119 sidewall at this location

L:\13067 Hatco\5.0 QA-QC and Safety\5.1 Quality Plans\5.1.1 - QAPP and any Addenda\2017-05 QAPP Add X119\[2017-05 X119 Supp Excavation R1.xlsx]Table 1 Exc Plan

# Table 2. Post-Excavation Sampling Summary Scrape Area X119 Supplemental Excavation Hatco Remediation Project Fords, New Jersey

	Post-Excavation Sample	Post-Excavation Sample	Post-Excavation Sample	
Area	Location Sample	Depth Interval (feet)	Identification	Parameters
	Bottom	1.0-1.5	X119-ES-PE-C-D-[DATE]	PCB
X119-ES	Eastern Side Wall	0.0-0.5	X119-ES-Ea-A-B-[DATE]	PCB
X119-ES	Western Side Wall	0.0-0.5	X119-ES-We-A-B-[DATE]	PCB
	Southern Side Wall	0.0-0.5	X119-ES-So-A-B-[DATE]	PCB
	Bottom	1.0-1.5	X119-DS-PE-C-D-[DATE]	PCB
X119-DS	Eastern Side Wall	0.0-0.5	X119-DS-Ea-A-B-[DATE]	PCB
X119-D3	Western Side Wall	0.0-0.5	X119-DS-We-A-B-[DATE]	PCB
	Southern Side Wall	0.0-0.5	X119-DS-So-A-B-[DATE]	PCB
	Bottom	2.0-2.5	X119-C8-PE-E-F-[DATE]	BEHP; PCB
X119-C8	Eastern Side Wall	0.0-0.5	X119-C8-Ea-A-B-[DATE]	BEHP; PCB
A119-Co	Western Side Wall	0.0-0.5	X119-C8-We-A-B-[DATE]	BEHP; PCB
	Southern Side Wall	0.0-0.5	X119-C8-So-A-B-[DATE]	BEHP; PCB
	Bottom	1.0-1.5	X119-7W-PE-C-D-[DATE]	PCB
X119-7W	Northern Side Wall	0.0-0.5	X119-7W-No-A-B-[DATE]	PCB
A119-7 W	Western Side Wall	0.0-0.5	X119-7W-We-A-B-[DATE]	PCB
	Southern Side Wall	0.0-0.5	X119-7W-So-A-B-[DATE]	PCB
	Bottom	1.0-1.5	X119-B6-PE-C-D-[DATE]	PCB
X119-B6	Northern Side Wall	0.0-0.5	X119-B6-No-A-B-[DATE]	PCB
X119-D0	Western Side Wall	0.0-0.5	X119-B6-We-A-B-[DATE]	PCB
	Southern Side Wall	0.0-0.5	X119-B6-So-A-B-[DATE]	PCB
	Bottom	1.0-1.5	X119-5W-PE-C-D-[DATE]	PCB
X119-5W	Northern Side Wall	0.0-0.5	X119-5W-No-A-B-[DATE]	PCB
A119-3 W	Western Side Wall	0.0-0.5	X119-5W-We-A-B-[DATE]	PCB
	Southern Side Wall	0.0-0.5	X119-5W-So-A-B-[DATE]	PCB

Notes:

PCB Total polychlorinated biphenyls BEHP Bis(2-ethylhexyl)phthalate

[DATE] Six digits identifying the month (Mo), day (Da) and year (Yr) of sample collection MoDaYr

## Table 3. Quality Control Sampling Summary Scrape Area X119 Supplemental Excavation Hatco Remediation Project Fords, New Jersey

Matrix	Parameters	Field Samples	Sample Frequency	MS/MSD	Duplicates
Soil	PCB	24	4 per excavation	2	2
3011	BEHP	4	4 samples from 1 excavation	1	1

#### Notes:

PCB Total polychlorinated biphenyls by SW-846 Method 8082

BEHP Bis(2-ethylhexyl)phthalate by SW-846 Method 8270C

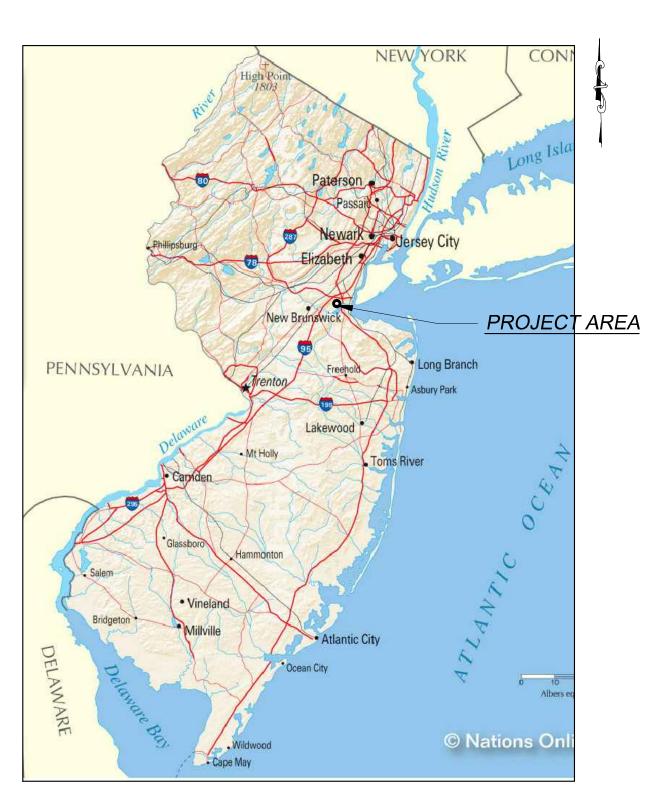
No field blank samples are required because samples will be collected using dedicated, disposable sampling tools.

Laboratory-blind duplicate samples will be collected at a frequency of one per 20 field samples

MS/MSD: Matrix spike/matrix spike duplicate samples will be collected at a frequency of one per 20 field samples

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# HATCO CORPORATE SITE CAP DESIGN FORMER LAGOON AREA FORDS, NEW JERSEY MAY 2017

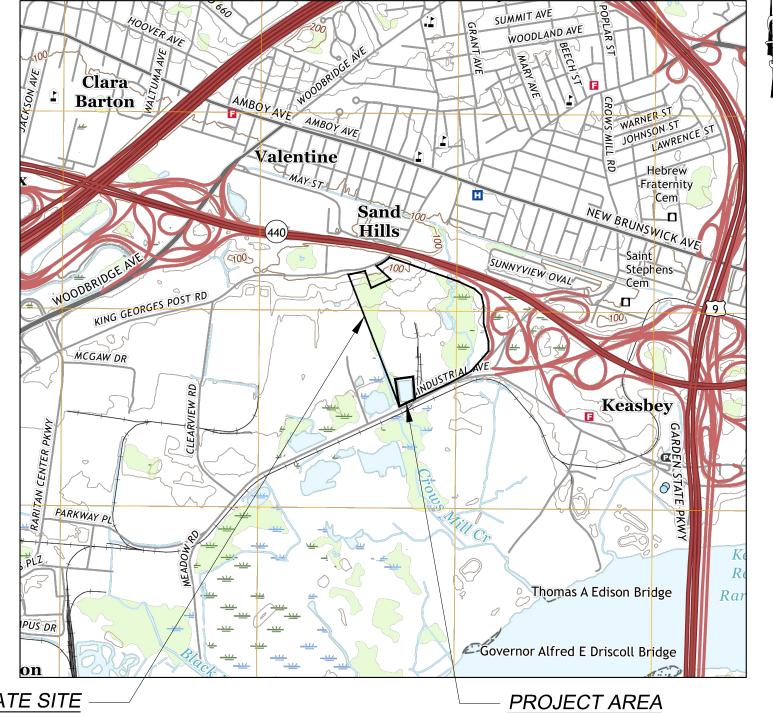


LOCATION MAP



# DRAWING INDEX

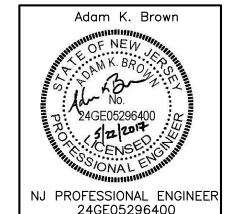
DRAWING NO.	SHEET NO.	DRAWING TITLE
G - 01	1	TITLE SHEET AND DRAWING INDEX
C - O1	2	EXISTING CONDITIONS PLAN
C - 02	3	FINAL GRADING PLAN
C - 03	4	SECTIONS SHEET 1 OF 3
C - 04	5	SECTIONS SHEET 2 OF 3
C-05	6	SECTIONS SHEET 3 OF 3



APPROXIMATE HATCO CORPORATE SITE

VICINITY MAP





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